

**AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended): A substrate having an organic thin film, characterized in that: a buffer layer and the organic thin film are sequentially deposited on a substrate so that the organic thin film overlies the buffer layer, and said buffer layer accelerates two dimensional growth of said organic thin film, and orients said organic thin film flatly; wherein said buffer layer comprises either pentacene or pentacene fluoride of acene system aromatics.

2. (Previously presented): The substrate having an organic thin film as set forth in claim 1, characterized in that a layer easily oriented with said buffer layer is further inserted between said substrate and said buffer layer.

3. (Previously presented): The substrate having an organic thin film as set forth in claim 1, characterized in that said substrate is an insulating substrate, said organic thin film is either  $C_n$  fullerene (where  $n$  is an integer of 60 or more), or rubrene.

4. (Currently amended): The substrate having an organic thin film as set forth in claim 3, characterized in that said insulating substrate is a sapphire substrate, said acene system aromatics is either pentacene or pentacene fluoride, and said  $C_n$  fullerene is  $C_{60}$ .

5. (Currently amended): The substrate having an organic thin film as set forth in claim 4, characterized in that the surface of said sapphire substrate is flattening-treated, and said buffer layer ~~consisting~~ consists of either pentacene or pentacene fluoride [[is]] deposited [[by]] ~~as a~~ molecular layer unit.

6. (Currently amended): A transistor provided with an organic thin film formed on a substrate, characterized in that: said organic thin film is deposited on said substrate via a buffer layer accelerating two dimensional growth of said organic thin film, and orienting said organic thin film flatly; wherein said buffer layer comprises either pentacene or pentacene fluoride of acene system aromatics, wherein the organic thin film overlies the buffer layer.

7. (Original): The transistor as set forth in claim 6, characterized in that a layer easily oriented with said buffer layer is further inserted between said substrate and said buffer layer.

8. (Previously presented): The transistor as set forth in claim 6, characterized in that said substrate is an insulating substrate, said organic thin film is either  $C_n$  fullerene (where n is an integer of 60 or more), or rubrene.

9. (Currently amended): The transistor as set forth in claim 8, characterized in that said insulating substrate is a sapphire substrate, ~~said acene system aromatics is either pentacene or pentacene fluoride~~, and said  $C_n$  fullerene is  $C_{60}$ .

10. (Currently amended): The transistor as set forth in claim 9, characterized in that the surface of said sapphire substrate is flattening-treated, and said buffer layer ~~consisting~~ consists of either pentacene or pentacene fluoride [[is]] deposited [[by]] as a molecular layer unit.

11. (Withdrawn): A method of manufacturing a substrate having organic thin film, characterized in that:

it includes a process of sequentially depositing a buffer layer and organic thin film on a substrate, and  
said buffer layer orients said organic thin film.

12. (Withdrawn): The method of manufacturing a substrate having organic thin film as set forth in claim 11, characterized in that a layer easily oriented with said buffer layer is further inserted between said substrate and said buffer layer.

13. (Withdrawn): The method of manufacturing a substrate having organic thin film as set forth in claim 11, characterized in that said substrate is an insulating substrate, said buffer layer is acene system aromatics or its derivative, said organic thin film is either  $C_n$  fullerene (where n is an integer of 60 or more),  $C_n$  fullerene derivative, or rubrene.

14. (Withdrawn): The method of manufacturing a substrate having organic thin film as set forth in claim 13, characterized in that said insulating substrate is a sapphire substrate, said acene system aromatics is either pentacene or pentacene fluoride, and said C<sub>n</sub> fullerene is C<sub>60</sub>.

15. (Withdrawn): The method of manufacturing a substrate having organic thin film as set forth in claim 14, characterized in that the surface of said sapphire substrate is flattening-treated, and said buffer layer consisting of either pentacene or pentacene fluoride is deposited by molecular layer unit.

16. (Withdrawn): A method of manufacturing a transistor provided with organic thin film formed on a substrate, characterized in that:

    said organic thin film is deposited on said substrate via the buffer layer orienting said organic thin film.

17. (Withdrawn): The method of manufacturing a transistor as set forth in claim 16, characterized in that a layer easily oriented with said buffer layer is further inserted between said substrate and said buffer layer.

18. (Withdrawn): The method of manufacturing a transistor as set forth in claim 16, characterized in that said substrate is an insulating substrate, said buffer layer is acene system

aromatics or its derivative, said organic thin film is either  $C_n$  fullerene (where n is an integer of 60 or more),  $C_n$  fullerene derivative, or rubrene.

19. (Withdrawn): The method of manufacturing a transistor as set forth in claim 18, characterized in that said insulating substrate is a sapphire substrate, said acene system aromatics is either pentacene or pentacene fluoride, and said  $C_n$  fullerene is  $C_{60}$ .

20. (Withdrawn): The method of manufacturing a transistor as set forth in claim 19, characterized in that the surface of said sapphire substrate is flattening-treated, and said buffer layer consisting of either pentacene or pentacene fluoride is deposited by molecular layer unit.

21. (Currently amended): A substrate having an organic thin film, characterized in that: a buffer layer and an organic thin film are sequentially deposited on the substrate so that the organic thin film overlies the buffer layer, said buffer layer is either pentacene or pentacene fluoride acene system aromatics, said buffer layer accelerates two dimensional growth of said organic thin film, and orients said organic thin film flatly.

22. (Currently amended): A substrate having an organic thin film, characterized in that: a buffer layer and an organic thin film are sequentially deposited on the substrate so that the organic thin film overlies the buffer layer, said buffer layer is either pentacene or pentacene fluoride acene system aromatics, said organic thin film is either  $C_n$  fullerene (where n is an

integer of 60 or more) or rubrene, said buffer layer accelerates two dimensional growth of said organic thin film, and orients said organic thin film flatly.

23. (Currently amended): A transistor, characterized in that: it is a transistor having an organic thin film formed on a substrate, said organic thin film is deposited on said substrate via a buffer layer consisting of either pentacene or pentacene fluoride acene system aromatics, said buffer layer accelerating two dimensional growth of said organic thin film, and orienting the organic thin film flatly, wherein the organic thin film overlies the buffer layer.

24. (Currently amended): A transistor, characterized in that: it is a transistor having an organic thin film formed on a substrate, said organic thin film is deposited on said substrate via a buffer layer consisting of either pentacene or pentacene fluoride acene system aromatics, said buffer layer accelerating two dimensional growth of said organic thin film, and orienting the organic thin film flatly, and said organic thin film is either  $C_n$  fullerene (where n is an integer of 60 or more) or rubrene, wherein the organic thin film overlies the buffer layer.